

# SAFETY DATA SHEET



## MLA-3202

Version: 1.13

Revision Date: 09/18/2018

Print Date: 09/18/2018

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: MLA-3202

Product Use Description: Lubricant additive  
For research use only.

Synonyms: Bis-(2-hydroxypropyl) Tallowamide

Company: LANXESS Solutions US Inc.  
2 Armstrong Road  
Shelton, CT  
06484  
United States of America (USA)  
  
Telephone: (US) +1 866-430-2775

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300  
:  
: US : 800-292-5898 (Technical inquiries)

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by Product Safety Department  
(US) +1 866-430-2775

MSDSRequest@lanxess.com

Recommended use of the chemical and restrictions on use

Recommended use : Lubricant additive  
For research use only.

Restrictions on use : Reserved for industrial and professional use.

### SECTION 2. HAZARDS IDENTIFICATION

Form	liquid
Colour	amber clear
Odour	not significant

#### GHS Classification

Short-term (acute) aquatic hazard : Category 1

# SAFETY DATA SHEET



**MLA-3202**

Version: 1.13

Revision Date: 09/18/2018

Print Date: 09/18/2018

Long-term (chronic) aquatic hazard : Category 1

## GHS label elements

Signal word : **Warning**

Hazard pictograms :



Hazard statements : H410 Very toxic to aquatic life with long lasting effects.

Other hazards : None

Other Hazardous Information : Skin sensitisation, Specific Target Organ Toxicity

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.  
**Response:**  
P391 Collect spillage.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

## Carcinogenicity:

### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous components

Chemical name	CAS-No.	Concentration (%)
Amides, tallow, N,N-bis(2-hydroxypropyl)	1454803-04-3	>= 90 - <= 100 %

# SAFETY DATA SHEET



**MLA-3202**

Version: 1.13

Revision Date: 09/18/2018

Print Date: 09/18/2018

## SECTION 4. FIRST AID MEASURES

- |   |   |
|---|---|
| If inhaled  | : Move to fresh air.<br>Obtain medical attention.   |
| In case of skin contact   | : If on clothes, remove clothes.<br>Wash off with soap and water.<br>Get medical attention if irritation develops and persists.                             |
| In case of eye contact  | : Rinse immediately with plenty of water, also under the eyelids,<br>for at least 15 minutes.<br>Get medical attention if irritation develops and persists. |
| If swallowed  | : If swallowed, DO NOT induce vomiting unless directed to do<br>so by medical personnel.<br>Rinse mouth with water.<br>Obtain medical attention.            |
| Most important symptoms<br>and effects, both acute and<br>delayed | : None known.   |
| Notes to physician  | : For specialist advice physicians should contact the Poisons<br>Information Service.   |

## SECTION 5. FIREFIGHTING MEASURES

- |  |   |
|--|---|
| Suitable extinguishing media                     | : Extinguishing media - large fires<br>Alcohol-resistant foam<br>Foam<br>Extinguishing media - small fires<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical |
| Unsuitable extinguishing<br>media                | : Water spray jet   |
| Specific hazards during<br>firefighting          | : Do not allow run-off from fire fighting to enter drains or water<br>courses.  |
| Special protective equipment<br>for firefighters | : Wear full protective clothing and self-contained breathing<br>apparatus.  |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

# SAFETY DATA SHEET



## MLA-3202

Version: 1.13

Revision Date: 09/18/2018

Print Date: 09/18/2018

- |   |  |
|---|--|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.<br>Avoid contact with skin and eyes.  |
| Environmental precautions   | : Do not allow material to contaminate ground water system.  |
| Methods and materials for containment and cleaning up               | : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Sweep up and shovel into suitable containers for disposal. |

### SECTION 7. HANDLING AND STORAGE

- |                             |   |
|-----------------------------|---|
| Advice on safe handling     | : Use only in well-ventilated areas.<br>In case of insufficient ventilation, wear suitable respiratory equipment. |
| Conditions for safe storage | : Keep containers tightly closed in a dry, cool and well-ventilated place.  |
| Materials to avoid          | : Oxidizing agents  |

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

- |                             |  |
|-----------------------------|--|
| <b>Engineering measures</b> | : Ensure that eyewash stations and safety showers are close to the workstation location. |
|-----------------------------|--|

#### Personal protective equipment

- |                          |   |
|--------------------------|---|
| Respiratory protection   | : In case of insufficient ventilation, wear suitable respiratory equipment. |
| Hand protection          |   |
| Remarks                  | : Impervious gloves   |
| Eye protection           | : Safety glasses with side-shields  |
| Skin and body protection | : Long sleeved clothing<br>To protect against splashes from pouring:        |

# SAFETY DATA SHEET



## MLA-3202

Version: 1.13

Revision Date: 09/18/2018

Print Date: 09/18/2018

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: amber clear
Odor	: not significant
Odour Threshold	: No data available
pH	: 6.5, Method: EPA OPPTS 830.7000 (pH) (undiluted) 4.7, Method: EPA OPPTS 830.7000 (pH) 1% Solution
Melting point/freezing point	: -50 - 10 °C Method: OPPTS 830.7200
Boiling point/boiling range	: Decomposition: Decomposes below the boiling point. Method: OPPTS 830.7220
Evaporation rate	: No data available
Flash point	: Method: ASTM D 93, closed cup does not flash
Flammability (solid, gas)	: Method: Flammability (contact with water)
Auto-flammability	: 360 °C1,008.2 - 1,015.5 hPa Method: Regulation (EC) No. 440/2008, Annex, A.15
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: 0.0000021 Pa (20 °C) Method: OPPTS 830.7950  0.0000046 Pa (25 °C) Method: OPPTS 830.7950
Relative vapour density	: No data available
Relative density	: No data available
Density	: 0.941 g/cm3Method: OPPTS 830.7300
<u>Solubility(ies)</u>	
Water solubility	: 0.54 mg/l (20 °C) Method: OPPTS 830.7840

# SAFETY DATA SHEET



## MLA-3202

Version: 1.13

Revision Date: 09/18/2018

Print Date: 09/18/2018

Solubility in other solvents	: completely soluble Solvent: Organic solvents
Partition coefficient: n-octanol/water	: log Pow: $\geq 5.3$ Method: OPPTS 830.7570
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: 245 mm <sup>2</sup> /s (40 °C) Method: OPPTS 830.7100
	1116 mm <sup>2</sup> /s (20 °C) Method: OPPTS 830.7100
Explosive properties	: Method: Regulation (EC) No. 440/2008, Annex, A.14 Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.  Method: Regulation (EC) No. 440/2008, Annex, A.21
Surface tension	: 57.2 mN/m, 20 °C, OECD Test Guideline 115, Surface active agents
Molecular weight	: No data available

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: No decomposition if stored normally.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Contamination
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: Carbon oxides Nitrogen oxides (NO <sub>x</sub> ) Other hazardous decomposition products may be formed.

# SAFETY DATA SHEET



**MLA-3202**

Version: 1.13

Revision Date: 09/18/2018

Print Date: 09/18/2018

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Product:

Acute inhalation toxicity : Remarks: At atmospheric temperature, this product has only a minimal risk of inhalation due to its low vapour pressure. It was demonstrated that during intended and foreseen applications, no respirable aerosol is formed.

#### Components:

##### **Amides, tallow, N,N-bis(2-hydroxypropyl):**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 423

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 402

### Skin corrosion/irritation

#### Components:

##### **Amides, tallow, N,N-bis(2-hydroxypropyl):**

Species: Rabbit  
Exposure time: 4 h  
Assessment: No skin irritation  
Method: OECD-Guideline No. 404

Species: reconstructed human epidermis (RhE)  
Assessment: No skin irritation  
Method: OECD Test Guideline 431  
Remarks: Based on available data, the classification criteria are not met.

Species: human keratinocytes  
Assessment: No skin irritation  
Method: OECD Test Guideline 439

### Serious eye damage/eye irritation

#### Components:

##### **Amides, tallow, N,N-bis(2-hydroxypropyl):**

Species: Rabbit  
Exposure time: 72 h  
Assessment: No eye irritation  
Method: OECD Test Guideline 405

### Respiratory or skin sensitisation

#### Components:

# SAFETY DATA SHEET



**MLA-3202**

Version: 1.13

Revision Date: 09/18/2018

Print Date: 09/18/2018

**Amides, tallow, N,N-bis(2-hydroxypropyl):**

Test Type: Buehler Test

Species: Guinea pig

Assessment: Non sensitizing.

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

Test Type: LLNA

Species: Mouse

Method: OECD Test Guideline 429

Result: May cause sensitisation by skin contact.

Remarks: Study finding likely a false positive, due to surface active property of substance.

**Germ cell mutagenicity**

**Components:**

**Amides, tallow, N,N-bis(2-hydroxypropyl):**

- Genotoxicity in vitro
- : Test Type: Bacterial reverse mutation test  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Result: negative
  - : Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative

Germ cell mutagenicity - Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**Carcinogenicity**

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

**Components:**

**Amides, tallow, N,N-bis(2-hydroxypropyl):**

- Effects on fertility
- : Species: Rat  
Application Route: Oral  
General Toxicity - Parent: No observed adverse effect level:  
1,000 mg/kg bw/day  
Method: OECD Test Guideline 421



# SAFETY DATA SHEET



**MLA-3202**

Version: 1.13

Revision Date: 09/18/2018

Print Date: 09/18/2018

Reproductive toxicity - Assessment : No toxicity to reproduction

## STOT - repeated exposure

### Components:

**Amides, tallow, N,N-bis(2-hydroxypropyl):**

Exposure routes: Ingestion

Target Organs: Lungs, Liver, spleen

Assessment: Based on available data, the classification criteria are not met.

## Repeated dose toxicity

### Components:

**Amides, tallow, N,N-bis(2-hydroxypropyl):**

Species: Rat

NOAEL: 1,000 mg/kg

Application Route: Oral

Exposure time: 28-day

Method: OECD Test Guideline 407

## Aspiration toxicity

### Product:

No aspiration toxicity classification

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

**Amides, tallow, N,N-bis(2-hydroxypropyl):**

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 0.91 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

LC50 (Gobiocypris rarus (rare gudgeon)): 0.5 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.14 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): 0.19 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

# SAFETY DATA SHEET



**MLA-3202**

Version: 1.13

Revision Date: 09/18/2018

Print Date: 09/18/2018

Toxicity to microorganisms : NOEC (activated sludge): 1,000 mg/l  
Method: OECD Test Guideline 209

## Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

## Persistence and degradability

### Components:

#### Amides, tallow, N,N-bis(2-hydroxypropyl):

Biodegradability : Result: Inherently biodegradable.  
Biodegradation: 77.9 %  
Exposure time: 28 d  
Method: OECD Test Guideline 302C

## Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: No data available

## Mobility in soil

### Product:

Mobility : Remarks: No data available

## Other adverse effects

### Product:

Results of PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological information : No information on ecology is available.

---

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : In accordance with local and national regulations.

---

## SECTION 14. TRANSPORT INFORMATION

# SAFETY DATA SHEET



**MLA-3202**

Version: 1.13

Revision Date: 09/18/2018

Print Date: 09/18/2018

## International Regulations

### IATA-DGR

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Amides, tallow, N,N-bis(2-hydroxypropyl))  
Class : 9  
Packing group : III  
Labels : Miscellaneous

### IMDG-Code

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Amides, tallow, N,N-bis(2-hydroxypropyl))  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## National Regulations

### 49 CFR

UN/ID/NA number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID,  
N.O.S.  
(Amides, tallow, N,N-bis(2-hydroxypropyl))  
Class : 9  
Packing group : III  
Labels : CLASS 9  
ERG Code : 171  
Marine pollutant : yes(Amides, tallow, N,N-bis(2-hydroxypropyl))  
Remarks : Shipment by ground under DOT is non-regulated; however it  
may be shipped per the applicable hazard classification to  
facilitate multi-modal transport involving ICAO (IATA) or IMO.

49CFR: no dangerous good in non-bulk packaging

## SECTION 15. REGULATORY INFORMATION

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

# SAFETY DATA SHEET



## MLA-3202

Version: 1.13

Revision Date: 09/18/2018

Print Date: 09/18/2018

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium methanolate	124-41-4	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

### SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 302** : This material does not contain any components with a section 302 EHS TPQ.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### US State Regulations

#### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Please note that Section 3 of this document lists only the hazardous components required by the specific country or region hazard communication regulations. The chemical identifiers listed in Section 3 are used globally for hazard communication purposes and may not reflect those used for chemical inventory coverage in a particular country or region. The chemical inventory information given in Section 15 of this document applies to the product as a whole and should be used when evaluating inventory compliance.**

#### The components of this product are reported in the following inventories:

<b>DSL</b>	All components of this product are on the Canadian DSL
<b>AICS</b>	On the inventory, or in compliance with the inventory
<b>NZIoC</b>	On the inventory, or in compliance with the inventory
<b>ENCS</b>	On the inventory, or in compliance with the inventory
<b>KECI</b>	Not in compliance with the inventory
<b>PICCS</b>	Not in compliance with the inventory
<b>IECSC</b>	Not in compliance with the inventory
<b>TCSI</b>	Not in compliance with the inventory
<b>US.TSCA</b>	Not On TSCA Inventory

## SECTION 16. OTHER INFORMATION

# SAFETY DATA SHEET



**MLA-3202**

Version: 1.13

Revision Date: 09/18/2018

Print Date: 09/18/2018

## Further information

Skin sensitisation

Specific Target Organ Toxicity

### **Other Emergency Phone Number**

<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+52 555 004 8763

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.